Fort Larned National Historic Site, Spatial Vegetation Data Metadata

Identification_Information:
  Citation:
    Citation_Information:
      Originator: USBR Remote Sensing and GIS Group, Denver, Colorado
      Publication_Date: Unpublished Material
      Title: fols_veg
      Edition: None
      Geospatial_Data_Presentation_Form: vector digital data
      Series_Information:
        Series_Name: None
        Issue_Identification: None
      Publication_Information:
        Publication_Place: None
        Publisher: None
      Other_Citation_Details: None
      Online_Linkage:
        \\WORKSTATION\C$\projects\nps\fols\cd\veg_data\vegetation_map\spatial_data\fols_veg_cov\fols_veg
      Online_Linkage: http://biology.usgs.gov/npsveg/fols/index.html#geospatial_veg_info
  Description:
    Abstract: This metadata is for the vegetation and land-use geo-spatial database for Fort Larned National Historic Site and surrounding areas. This project is authorized as part of the USGS/NPS Vegetation Mapping Program. The program is being administered by the Biological Resources Division (BRD) of the United States Geological Survey (USGS) in conjunction with the National Park Service (NPS) Inventory and Monitoring Program. The USGS/BRD is responsible for overall management and oversight of all ongoing mapping efforts. This mapping effort was performed by the U.S. Bureau of Reclamation's (USBR) Remote Sensing and GIS Group, Technical Service Center, Denver, Colorado and NatureServe (formally The Nature Conservancy).
    Purpose:
      The NPS Inventory and Management goals are, among others, to consistently map and document the vegetation of all National Park Service units with a resource component, thereby creating a baseline vegetation inventory.

      The purposes of this specfic mapping effort are varied and include the following: 1) provide support for NPS Resource Management, 2) promote vegetation-related research, 3) provide support for NPS Planning and Compliance, 4) add to the information base for NPS Interpretation, 5) provide a vegetation baseline inventory for the Park, 6) provide information needed for NPS Fire Program, and 7) assist in overall NPS Operations.
    Supplemental_Information: None
  Time_Period_of_Content:
    Time_Period_Information:
      Single_Date/Time:
        Calendar_Date: 2005
    Currentness_Reference: ground condition
  Status:
    Progress: Complete
    Maintenance_and_Update_Frequency: None planned
  Spatial_Domain:
    Description_of_Geographic_Extent: Fort Larned National Historic Site and environs
    Bounding_Coordinates:
      West_Bounding_Coordinate: -99.245760
      East_Bounding_Coordinate: -99.200417
      North_Bounding_Coordinate: 38.195387
      South_Bounding_Coordinate: 38.114445
  Keywords:
    Theme:

Theme_Keyword_Thesaurus: None
Theme_Keyword: Fort Larned National Historic Site
Theme_Keyword: Kansas
Theme_Keyword: Vegetation
Theme_Keyword: Land Cover and Land Use
Theme_Keyword: USGS-NPS National Vegetation Mapping Program
Theme_Keyword: NVCS Plant Associations
Theme_Keyword: NVCS Plant Alliances
Place:
Place_Keyword_Thesaurus: None
Place_Keyword: Fort Larned National Historic Site
Place_Keyword: Kansas
Place_Keyword: Larned
Place_Keyword: United States of America
Place_Keyword: North America
Place_Keyword: Pawnee County
Stratum:
Stratum_Keyword_Thesaurus: None
Stratum_Keyword: None
Temporal:
Temporal_Keyword_Thesaurus: None
Temporal_Keyword: 2005
Taxonomy:
Keywords/Taxon:
Taxonomic_Keyword_Thesaurus: none
Taxonomic_Keywords: Standardized National Vegetation Classification System
Taxonomic_Keywords: vegetation classification
Taxonomic_Keywords: alliance
Taxonomic_Keywords: community association
Taxonomic_Classification:
Taxon_Rank_Name: Kingdom
Taxon_Rank_Value: Plantae
Access_Constraints: None
Use_Constraints: none
Point_of_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: Bureau of Reclamation
Contact_Person: Mike Pucherelli
Contact_Position: Group Manager
Contact_Address:
Address_Type: mailing and physical address
Address: P.O. Box 25007 Bldg. 56 Denver Federal Center M.S. D-8260
City: Denver
State_or_Province: Colorado
Postal_Code: 80225
Country: United States of America
Contact_Voice_Telephone: 303-445-2267
Contact_TDD/TTY_Telephone: None
Contact_Facsimile_Telephone: 303-445-6337
Contact_Electronic_Mail_Address: mpucherelli@do.usbr.gov
Hours_of_Service: 8 am - 5 pm
Contact_Instructions: None
Data_Set_Credit:
USBR Remote Sensing and GIS Group: Mike Pucherelli. Cogan Technology, Inc.: Dan Cogan (Cogan Technology Inc.)

Native_Data_Set_Environment: Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog 9.2.0.1324

Data_Quality_Information:
Attribute_Accuracy:
Attribute_Accuracy_Report: The thematic accuracy is approximately 92%. Please read the accompanying report or check with the park for the latest accuracy assessment values.
Quantitative_Attribute_Accuracy_Assessment:
Attribute_Accuracy_Value: 92%
Attribute_Accuracy_Explanation: Overall Thematic Accuracy of the Vegetation Attribute Field (Map_Code).
Logical_Consistency_Report: All polygon features were checked for topology, existence of label points, and label point uniqueness. The labels were checked for correct and complete attributing. All nodes where checked for unintentional lines and to ensure that the polygons were closed. All steps preformed using ESRI ArcInfo commands.
Completeness_Report: All data that could be interpreted from the NAIP imagery were digitized in accordance with the minimum mapping unit (MMU) of 1/2 hectare. This included selected features that fell into the National Vegetation Classification and the Anderson Level II land use classification. Some classes below the MMU were included, especially water and wetland features and those at the edge of the study area (i.e. cut off by other features and borders). Roads (to visible right-of-way or fence line) and streams/drainages wider than 10 meters were digitized as polygons and attributed accordingly.
Positional_Accuracy:
Horizontal_Positional_Accuracy:
Horizontal_Positional_Accuracy_Report: Unknown: Assumed that the NAIP 2005 basemap met the National Map Accuracy Standards, reference the NAIP ortho-photo metadata.
Quantitative_Horizontal_Positional_Accuracy_Assessment:
Horizontal_Positional_Accuracy_Value: None
Horizontal_Positional_Accuracy_Explanation: None
Vertical_Positional_Accuracy:
Vertical_Positional_Accuracy_Report: Unknown: Assumed that the NAIP 2005 basemap met the National Map Accuracy Standards, reference the NAIP ortho-photo metadata.
Quantitative_Vertical_Positional_Accuracy_Assessment:
Vertical_Positional_Accuracy_Value: None
Vertical_Positional_Accuracy_Explanation: None
Lineage:
Source_Information:
Source_Citation:
Citation_Information:
Originator: U.S. Dept of Agriculture
Publication_Date: Unknown
Title: NAIP 2005 Orthophotography Pawnee County
Edition: None
Geospatial_Data_Presentation_Form: raster digital data
Series_Information:
Series_Name: None
Issue_Identification: None
Publication_Information:
Publication_Place: None
Publisher: None
Source_Scale_Denominator: 12000
Type_of_Source_Media: CD-ROM
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 2005
Source_Currentness_Reference: ground condition
Source_Citation_Abbreviation: GRTE Ortho_photo

Source_Contribution: None
Process_Step:
Process_Description: All plant community data that could be interpreted from the NAIP imagery were digitized in accordance with the minimum mapping unit (MMU) of 1/2 hectare. This included selected features that fell into the National Vegetation Classification and the Anderson Level II land use classification. Some classes below the MMU were included, especially water and wetland features and those at the edge of the study area (i.e. cut off by other features and borders). Roads (to visible right-of-way or fence line) and streams/drainages wider than 10 meters were digitized as polygons and attributed accordingly. Polygons were checked in the field and attributed accordingly.
Process_Date: Unknown
Process_Step:
Process_Description: PHOTO INTERPRETATION: All map classes were interpreted from 1:12,000-scale, true color aerial photography and 1:12,000-scale true color ortho-rectified photography (ortho-photos). Photo-interpretation used the standard identification features such as tone, texture, color, pattern, topographic position, and shadow. In addition, field sample locations and their vegetation descriptions aided in assigning a map class to each polygon. Photographs were examined using a stereoscope as needed. Linework was created on mylars placed over both the aerial photos and the ortho-photos.
Process_Date: Unknown
Process_Step:
Process_Description: GIS PROCEDURES: The linework on the mylar ortho-photo overlays were transferred into the GIS database by one of two methods, either heads-up digitizing or scanning. METHOD I: Heads-up digitizing is a procedure whereby the operator digitizes by hand and eye on a computer terminal screen showing a digital image of an ortho-rectified photo. By looking at similar features on both the aerial photograph and on the orthophoto, the line drawn on the aerial photo overlay is manually transferred to the digital image. METHOD II: The majority of the linework for this project was transferred via scanning the ortho-photo mylar overlays using a large-format color scanner. Before the mylar was scanned, it was marked with control points that correspond to the 1000-meter grid embossed on the hard-copy ortho-photos. GIS software was then used to convert the scanned files from a raster to vector base using centerline commands. Extensive cleaning, edge matching, and general editing of the digital vectors was completed before polygon topology was created. Labels were created for each polygon and they were attributed with the necessary vegetation information. The entire transfer and editing sequence was automated via in-house Arc/INFO AML programs.
Process_Date: Unknown
Process_Step:
Process_Description: OTHER DATA: The mapping project and park boundary coverages were acquired from the Park. A flight line coverage was obtained from the photography vendor. Field Observation, Plot, and Accuracy Assessment data point coverages were created by entering points with the 'generate' command using a text file of points and x-y coordinates.
Process_Date: Unknown
Process_Step:
Process_Description: Metadata imported.
Source_Used_Citation_Abbreviation: C:\DOCUME~1\Dan\LOCALS~1\Temp\xml1B.tmp
Process_Date: Unknown
Process_Step:
Process_Description: Metadata imported.
Source_Used_Citation_Abbreviation: C:\DOCUME~1\Dan\LOCALS~1\Temp\xml1C.tmp
Process_Date: Unknown

Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method: Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: Complete chain
Point_and_Vector_Object_Count: 612
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: Label point

Point_and_Vector_Object_Count: 229
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: GT-polygon composed of chains
Point_and_Vector_Object_Count: 229
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: Point
Point_and_Vector_Object_Count: 4

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Planar:
Grid_Coordinate_System:
Grid_Coordinate_System_Name: Universal Transverse Mercator
Universal_Transverse_Mercator:
UTM_Zone_Number: 14
Transverse_Mercator:
Scale_Factor_at_Central_Meridian: 0.999600
Longitude_of_Central_Meridian: -99.000000
Latitude_of_Projection_Origin: 0.000000
False_Easting: 500000.000000
False_Northing: 0.000000
Planar_Coordinate_Information:
Planar_Coordinate_Encoding_Method: coordinate pair
Coordinate_Representation:
Abscissa_Resolution: 0.000001
Ordinate_Resolution: 0.000001
Planar_Distance_Units: meters
Geodetic_Model:
Horizontal_Datum_Name: North American Datum of 1983
Ellipsoid_Name: Geodetic Reference System 80
Semi-major_Axis: 6378137.000000
Denominator_of_Flattening_Ratio: 298.257222

Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label: fols_veg.pat
Entity_Type_Definition: attributes from shapefile table
Entity_Type_Definition_Source: Fort Larned National Historic Site
Attribute:
Attribute_Label: FID
Attribute_Definition: Internal feature number.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Shape
Attribute_Definition: Feature geometry.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain: Coordinates defining the features.
Attribute:
Attribute_Label: AREA
Attribute_Definition: Area of feature in internal units squared.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:

Unrepresentable_Domain: Positive real numbers that are automatically generated.
Attribute:
Attribute_Label: PERIMETER
Attribute_Definition: Perimeter of feature in internal units.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain: Positive real numbers that are automatically generated.
Attribute:
Attribute_Label: FOLS_VEG#
Attribute_Definition: Internal feature number.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 10 - 25%
Enumerated_Domain_Value_Definition: Sparse
Enumerated_Domain_Value_Definition_Source: ESRI
Enumerated_Domain:
Enumerated_Domain_Value: 25 - 60%
Enumerated_Domain_Value_Definition: Open
Enumerated_Domain_Value_Definition_Source: ESRI
Enumerated_Domain:
Enumerated_Domain_Value: > 60%
Enumerated_Domain_Value_Definition: Dense
Enumerated_Domain_Value_Definition_Source: ESRI
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: FOLS_VEG-ID
Attribute_Definition: User-defined feature number.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: Homogeneous
Enumerated_Domain_Value_Definition: Evenly Dispersed
Enumerated_Domain_Value_Definition_Source: ESRI
Enumerated_Domain:
Enumerated_Domain_Value: Bunched / Clumped
Enumerated_Domain_Value_Definition: Uneven Dispersed
Enumerated_Domain_Value_Definition_Source: ESRI
Enumerated_Domain:
Enumerated_Domain_Value: Linear
Enumerated_Domain_Value_Definition: Straight Vegetation
Enumerated_Domain_Value_Definition_Source: ESRI
Attribute:
Attribute_Label: MAP_CLASS
Attribute_Definition: Map Class Code
Attribute_Definition_Source: USBR Remote Sensing and GIS Group
Attribute_Domain_Values:
Unrepresentable_Domain: Map class code.
Attribute:
Attribute_Label: MAP_DESC
Attribute_Definition: Map Class Name
Attribute_Definition_Source: USBR Remote Sensing and GIS Group
Attribute_Domain_Values:
Unrepresentable_Domain: Map class association common name.
Attribute:
Attribute_Label: DENS_MOD

Attribute_Definition: Density Modifier
Attribute_Definition_Source: USBR Remote Sensing and GIS Group
Attribute_Domain_Values:
Unrepresentable_Domain: Coverage density physiognomic modifier. Applied to all vegetation map classes.
Attribute:
Attribute_Label: PTRN_MOD
Attribute_Definition: Pattern Modifier
Attribute_Definition_Source: USBR Remote Sensing and GIS Group
Attribute_Domain_Values:
Unrepresentable_Domain: Coverage pattern physiognomic modifier. Applied to all vegetation map classes.
Attribute:
Attribute_Label: HT_MOD
Attribute_Definition: Modifier - Height range of the dominant vegetation layer
Attribute_Definition_Source: USBR Remote Sensing and GIS Group
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 0 - 0.5 Meters
Enumerated_Domain_Value_Definition: 0-0.5 m (0-1.6 ft)
Enumerated_Domain_Value_Definition_Source: USBR Remote Sensing and GIS Group
Enumerated_Domain:
Enumerated_Domain_Value: 0.5 - 1 Meters
Enumerated_Domain_Value_Definition: 0.5-1 m (1.6-3.3 ft)
Enumerated_Domain_Value_Definition_Source: USBR Remote Sensing and GIS Group
Enumerated_Domain:
Enumerated_Domain_Value: 15 - 30 Meters
Enumerated_Domain_Value_Definition: 15-30 m (50-98 ft)
Enumerated_Domain_Value_Definition_Source: USBR Remote Sensing and GIS Group
Enumerated_Domain:
Enumerated_Domain_Value: >30 meters
Enumerated_Domain_Value_Definition: >30 m (>98 ft)
Enumerated_Domain_Value_Definition_Source: USBR Remote Sensing and GIS Group
Attribute:
Attribute_Label: DOM_MOD
Attribute_Definition: Physiognomic Modifier
Attribute_Definition_Source: USBR Remote Sensing and GIS Group
Attribute_Domain_Values:
Unrepresentable_Domain: Dominant physiognomic modifier. Applied to all vegetation map classes.
Attribute:
Attribute_Label: CES_CODE
Attribute_Definition: NVC Ecological Systems Code
Attribute_Definition_Source: NatureServe
Attribute_Domain_Values:
Unrepresentable_Domain: National Vegetation Classification Ecological System code.
Attribute:
Attribute_Label: CES_NAME
Attribute_Definition: NVC Name
Attribute_Definition_Source: NatureServe
Attribute_Domain_Values:
Unrepresentable_Domain: National Vegetation Classification Ecological System name.
Attribute:
Attribute_Label: IDENTIFIER
Attribute_Definition: NVC Plant Association/Alliance Code
Attribute_Definition_Source: NatureServe
Attribute_Domain_Values:
Unrepresentable_Domain: CEGL code.
Attribute:

Attribute_Label: ASSN_NAME
Attribute_Definition: Association scientific name.
Attribute_Definition_Source: NatureServe
Attribute_Domain_Values:
Unrepresentable_Domain: Textual Scientific association name.
Attribute:
Attribute_Label: ASSN_CNAME
Attribute_Definition: Association common name.
Attribute_Definition_Source: NatureServe
Attribute_Domain_Values:
Unrepresentable_Domain: Textual common association name.
Attribute:
Attribute_Label: NVCS_CODE
Attribute_Definition: NVC Idenification Code
Attribute_Definition_Source: NatureServe
Attribute_Domain_Values:
Unrepresentable_Domain: National Vegetation Classification System code.
Attribute:
Attribute_Label: ALL_NAME
Attribute_Definition: NVC Alliance Name
Attribute_Definition_Source: NatureServe
Attribute_Domain_Values:
Unrepresentable_Domain: National Vegetation Classification System Alliances (scientific names).
Attribute:
Attribute_Label: ALL_CNAME
Attribute_Definition: NVC Alliance Common Name
Attribute_Definition_Source: NatureServe
Attribute_Domain_Values:
Unrepresentable_Domain: National Vegetation Classification System Alliances (common names).
Attribute:
Attribute_Label: FORMATION
Attribute_Definition: NVC Formation Name
Attribute_Definition_Source: NatureServe
Attribute_Domain_Values:
Unrepresentable_Domain: National Vegetation Classification System Formation name.
Attribute:
Attribute_Label: SUBGROUP
Attribute_Definition: NVC Subgroup Name
Attribute_Definition_Source: NatureServe
Attribute_Domain_Values:
Unrepresentable_Domain: National Vegetation Classification System Subgroup name.
Attribute:
Attribute_Label: GROUP
Attribute_Definition: NVC Group Name
Attribute_Definition_Source: NatureServe
Attribute_Domain_Values:
Unrepresentable_Domain: National Vegetation Classification System Group name.
Attribute:
Attribute_Label: SUBCLASS
Attribute_Definition: NVC Subclass Name
Attribute_Definition_Source: NatureServe
Attribute_Domain_Values:
Unrepresentable_Domain: National Vegetation Classification System Subclass name.
Attribute:
Attribute_Label: CLASS
Attribute_Definition: NVC Class Name

Attribute_Definition_Source: NatureServe
Attribute_Domain_Values:
Unrepresentable_Domain: National Vegetation Classification System Class name.
Attribute:
Attribute_Label: LUC_II_GEN
Attribute_Definition: Anderson General Land Use Name
Attribute_Definition_Source: USGS Anderson Land Cover Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Land Cover Classification System types.
Attribute:
Attribute_Label: LUC_II_DET
Attribute_Definition: Anderson Specfic Land Use Name
Attribute_Definition_Source: USGS Anderson Land Cover Classification
Attribute_Domain_Values:
Unrepresentable_Domain: Land Use Classification System types.
Attribute:
Attribute_Label: COMMENTS
Attribute_Definition: General Polygon Comments
Attribute_Definition_Source: USBR Remote Sensing and GIS Group
Attribute_Domain_Values:
Unrepresentable_Domain: Textual general decription comments.
Attribute:
Attribute_Label: ACRES
Attribute_Definition: Polygon Area
Attribute_Definition_Source: USBR Remote Sensing and GIS Group
Attribute_Domain_Values:
Unrepresentable_Domain: Unique numbers - user defined
Overview_Description:
Entity_and_Attribute_Overview: Attributes were either generated by ArcInfo, or assigned by the USBR Remote Sensing GIS Group.
Entity_and_Attribute_Detail_Citation: Fort Larned National Historic Site Vegetation Mapping Project Final Report (DOI - USGS/USBR)

Distribution_Information:
Distributor:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: USGS Center for Biological Informatics
Contact_Position: USGS-NPS Vegetation Mapping Program Coordinator
Contact_Address:
Address_Type: mailing and physical address
Address: United States Geological Survey, Center for Biological Informatics
Address: MS 302, Bldg 810, Room 8000
Address: Denver Federal Center
City: Denver
State_or_Province: Colorado
Postal_Code: 80225
Country: USA
Contact_Voice_Telephone: 303 202-4220
Contact_Facsimile_Telephone: 303 202-4219
Contact_Facsimile_Telephone: 303 202-4229
Contact_Electronic_Mail_Address: gs-b-npsveg@usgs.gov
Resource_Description: Downloadable Data
Distribution_Liability:
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Standard_Order_Process:
Digital_Form:
Digital_Transfer_Information:
Format_Name: HTML
Digital_Transfer_Option:
Online_Option:
Computer_Contact_Information:
Network_Address:
Network_Resource_Name: http://biology.usgs.gov/npsveg/fols/index.html#geospatial_veg_info
Access_Instructions: Internet Access
Fees: None

Metadata_Reference_Information:
Metadata_Date: 20080313
Metadata_Review_Date: 20080815
Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: USGS-NPS Vegetation Mapping Program Coordinator
Contact_Address:
Address_Type: mailing and physical address
Address:
U.S. Geological Survey, Center for Biological Informatics, MS 302,
Room 8000, Building 810, Denver Federal Center
City: Denver
State_or_Province: Colorado
Postal_Code: 80225
Country: USA
Contact_Voice_Telephone: (303) 202-4220
Contact_Facsimile_Telephone: (303) 202-4219
Contact_Electronic_Mail_Address: gs-b-npsveg@usgs.gov
Metadata_Standard_Name: FGDC-STD-001.1-1999 Content Standard for Digital Geospatial Metadata, 1998 Part 1: Biological Data Profile, 1999
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Extensions:
Online_Linkage: http://metadata.nbii.gov/portal/community/Communities/Toolkit/Metadata/FGDC_Metadata/
Profile_Name: Biological Data Profile FGDC-STD-001.1-1999